

Analysis to Inform CA Grid Integration Rules for PV

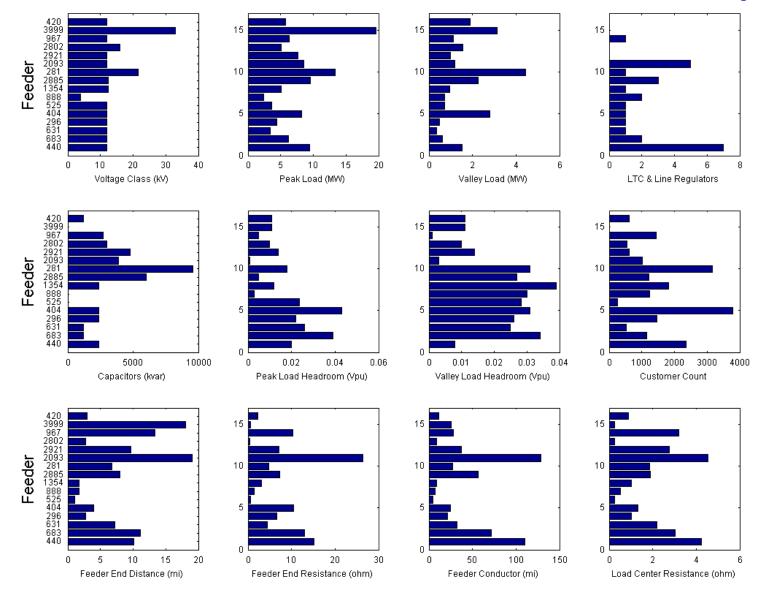
Task 2 Feeder Selection

Matthew Rylander Jeff Smith EPRI

May 15, 2015



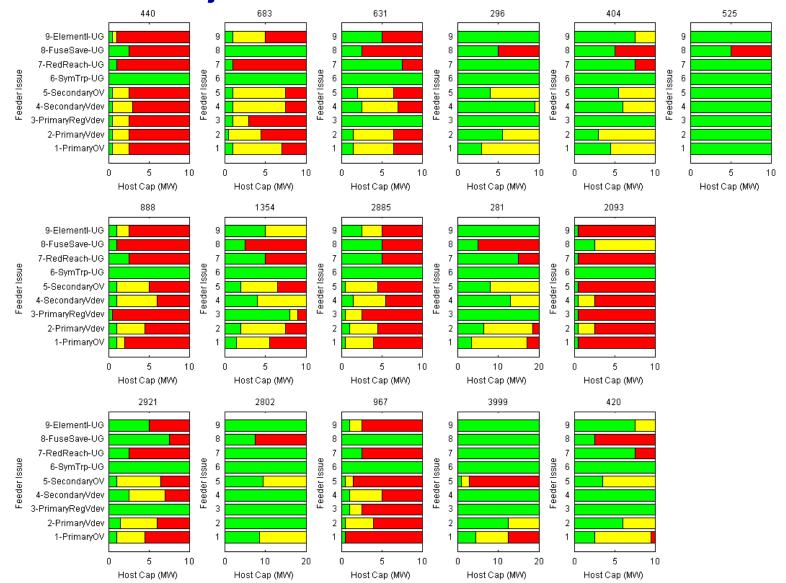
Feeder Characteristics from CSI RD&D Solicitation #3 Project1



1 - http://www.calsolarresearch.ca.gov/funded-projects/88-screening-distribution-feeders-alternatives-to-the-15-rule



Large-Scale Hosting Capacity Results from CSI RD&D Solicitation #3 Project Feeders



Feeders Selected for CSI RD&D Solicitation #4 Project²

Criteria for CSI4 feeder selection

- Utility
 - 2-3 feeders from each utility
 - Each utility represented in the CSI4 analysis

Impact

- 3 high impact / low hosting capacity feeders
- 2 moderate impact / moderate hosting capacity feeders
- 2 low impact / high hosting capacity feeders
- Low hosting capacity feeders could benefit more from smart inverters

Voltage Class

- Low/Medium/High
- Majority of the feeders are in the 12 kV class

Equipment

- Certain equipment such as regulators have a direct relationship to low hosting capacity
- Several feeders chosen have regulators

^{2 -} http://www.calsolarresearch.ca.gov/funded-projects/110-analysis-to-inform-california-grid-integration-rules-for-pv



Feeders Selected for CSI RD&D Solicitation #4 Project

EPRI Feeder ID	Hosting Capacity	Nominal Voltage	Equipment
683	Low	12 kV	Line Regulators
631	Moderate	12 kV	
888	Low	4 kV	
2885	Low	12 kV	Line Regulators
281	High	21 kV	
2921	Moderate	12kV	
420	High	12 kV	